

CLIMATOLOGICAL DATA FOR JANUARY, 1911.

DISTRICT No. 1, NORTH ATLANTIC STATES.

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GENERAL SUMMARY.

The weather of January, 1911, was of widely varied character in different parts of the district, the prevailing temperatures being quite near the normal in some of the northern sections, but very unseasonal elsewhere. Over the greater part of the district, however, the month was remarkably warm, the average temperatures at most stations having been exceeded only two or three times in any January of the last 25 years. The month was remarkable also for its freedom from severe storms and for the unusual scarcity of snowfall.

During most of the month barometric depressions of moderate intensity moved in quick succession over the Northeastern States, or through the eastern Canadian Provinces, causing somewhat more than the usual cloudiness, frequent precipitation, moderately high temperatures, and much changeable weather, though cold waves were fewer and much less severe than are generally experienced in the first month of the year. In New Jersey it was the first January since 1891 without temperatures below zero somewhere in the State. As far north as Massachusetts few stations reported temperatures lower than zero. This peculiarity was less marked in the northern part of the district, but even in the mountain regions of the northern New England States and in the Adirondacks, where, during the coldest periods, there were temperatures ranging from 15° to 30° below zero, the minima for the month were somewhat higher than in most recent years.

The storms of the month were not of unusual character, though practically all were attended by sufficient rises in temperature to prevent the extensive occurrence of snowfall. There was a marked deficiency of precipitation in the northern part of the district and a considerable excess in the southern. The daily amounts, however, were quite uniform and comparatively light in nearly every case, producing only moderate effects upon the streams.

TEMPERATURE.

The average temperature for the district was 32.7° , or about 4.2° above the normal, and ranged from 25.2° in New England to 39° in Virginia. The mean temperatures for individual stations were less than 15° in northern Maine, but exceeded 40° in some parts of Virginia. The high average temperature was due to the continued prevalence of mild weather with little or no interruption by cold waves, such as usually follow the principal storms of midwinter. The weather, however, was decidedly changeable, and the variation in temperature from day to day was fully up to the average, though the extremes for the month were generally well within the records of recent years. Temperatures above 60° did not occur in New York or in any of the New England States, while temperatures below zero were not recorded at any of the stations

in West Virginia, Maryland, Delaware, Virginia, or New Jersey. The highest temperature reported in the district was 76° at La Plata, Md., on the 14th, and the lowest was -33° at Houlton, Me., on the 17th and at Presque Isle, Me., on the 18th.

The mean temperature was above normal at every station in the district, but the departure from the normal was only 0.2° at Rumford Falls, Me., and at several other of the most northern stations it was less than 2° . There was an average excess of 4° to 7° or more over practically all the district south of the latitude of Albany, N. Y.

The cold wave that passed over the central part of the district on the 31st of December dominated the northeastern sections on the 1st of January, but was followed by a very rapid change to warmer weather resulting in the highest temperatures of the month in many sections on the next day. The warm period ended on the 4th and was followed by a cold period of about three days, which was not severe, except in the northern part of the district. From the 8th to the 14th the weather was generally mild, and at many stations in Maryland and Pennsylvania the highest temperatures of the month occurred on the 14th.

The most important cold period lasted from the 15th to the 18th or 19th, although the lowest temperatures for the month were recorded at a majority of the stations on the 5th. Decidedly the lowest daily mean temperatures occurred on the 16th and 17th, when in the northern parts of New Hampshire and Maine the maximum temperatures were below 10° and in some instances below zero. After the 19th the temperature averaged somewhat above the normal, but the weather over the northern part of the district was very changeable, and temperatures below zero occurred on several dates. One of the warmest days of the month was the 27th, when the minimum temperatures were generally above freezing, except in Maine and the mountainous sections of northern New Hampshire, Vermont, and New York, while the maximum temperatures ranged from about 40° in southern New England to more than 60° in the southern part of the district. The mild weather ended on the 30th and a decided change to colder occurred on the 31st.

PRECIPITATION.

The average precipitation for the district was 3.69 inches, which is about 0.58 inch above the normal but considerably less than the average for January last year. The distribution was remarkably uneven for the district as a whole, the section averages increasing from 2.73 inches in New England to 5.59 inches in West Virginia. In the former section there was an average deficiency of 1.06 inch, while in the latter there was an average excess of 2.86 inches. The greatest amount for the month was 7.62 inches at Bayard, W. Va., and the least was 0.83 inch at West Berne, N. Y. In New York and New Jersey there was an average deficiency of less than

half an inch, but farther south and west there was a general excess. Though the precipitation in the southwestern parts of the district was about twice as great as that over the northeastern part, the variation from section to section was very gradual and the amounts recorded at stations in the same States were generally quite uniform.

The frequency of precipitation was fully up to the average, except in Maine, New Hampshire, and Vermont. In those States there was a comparatively dry period beginning on the 10th and continuing until the 26th, during which only light and scattered precipitation occurred. In general, the precipitation occurred largely in two periods, the one extending from the 2d to the 9th and the other from the 26th to the 30th. During the intervening period there was no precipitation at many of the stations in northern Maine, and only slight amounts elsewhere in that State, but the precipitation of this period increased gradually toward the southwest. Throughout the southern and central parts of the district there was moderate to heavy precipitation between the 12th and 15th and on the 21st or 22d.

There were no severe general storms during the month, nor were there any instances of excessive precipitation except at one station, Alfred, N. Y., where 3 inches of rain occurred on the 28th. Amounts exceeding 1 inch occurred in many localities in the southern part of the district on the 3d, 14th, and 27th or 28th; but, in general, the greatest amount for any 24-hour period was considerably less than 1 inch.

SNOWFALL.

The snowfall of the northern States was exceptionally light, being about the least for any January in the last 20 years. Actual computation shows the average amount for the stations in New York to be much less than that for any other January since 1900, and it appears that it is also less than that of any other January since the establishment of the State weather service in 1889. In northern Maine the precipitation was nearly all in the form of snow, the total for the month being somewhat more than 20 inches. But in the other States there was generally less than 5 inches of snow, except in some of the mountain regions. Snow fell on numerous dates in northern New York and New England, but from Massachusetts southward the number of days with snow was exceptionally small, while the total amount for nearly one-fourth of the area did not exceed 1 inch. Only a trace of snow was observed during the month at several stations even as far north as Massachusetts. In the Southern States the only snowfall of consequence occurred on the 22d, when as much as 4 inches was recorded in many localities in Maryland, Delaware, New Jersey, and West Virginia. At Hammonton, N. J., the snowfall of this storm amounted to 7 inches, which is probably the greatest amount recorded in the district for any 24-hour period.

In the northern part of the district the ground was generally well covered with snow until about the 10th, but in other parts of the district the amount of snow on ground was unusually small at nearly all times during the month.

RIVER CONDITIONS.

The river stages remained fairly near the normal in most parts of the district throughout the month. Three periods of moderately high water were, however, noticeable. At the beginning of the month the rains and melting snow of the last few days of December caused rather high stages in the streams of the Delaware and Hudson systems. A second general rise occurred between the 13th and 17th, and in the Susquehanna system was of more importance than elsewhere. In the Harrisburg district the river rose nearly to flood stage on the 15th. The high water was due to ice gorges rather than to heavy precipitation or rapid thawing of the snow, as may be seen from the following taken from the report of the official in charge, local office Weather Bureau at Harrisburg, Pa.:

The ice which broke on the headwaters of the West Branch above Renovo on the night of December 29, 1910, moved slowly down and gorged near Pine until January 14, when, as a result of moderately heavy rains and warmer weather over the upper West Branch, the river rose decidedly and all the bottom land between Pine and Lock Haven was under water on the night of the 14th. The ice above the dam at Williamsport broke about 10 a. m., January 15, and the river there rose steadily till about 3 p. m., reaching a maximum stage of 19 feet, or only 1 foot below the flood stage.

The third rise of the rivers occurred at the end of the month. Rains of from two to five days duration occurred over the district, much snow was melted, and there was a marked rise in the rivers. This was attended by much outflowing ice, but no serious damage was reported.

MISCELLANEOUS.

A rather severe windstorm occurred in the mountain regions of Virginia on the 8th and 9th. The wind attained a velocity of 74 miles per hour or more, and, according to the statement of Mr. Ernest Nothnagel, cooperative observer at Staunton, Va., blew with sufficient force to rock houses, uproot trees, and unroof moderately substantial buildings. The damage was confined mainly to Augusta, Rockingham, and Shenandoah counties.

Much foggy weather prevailed along the middle Atlantic coast region between the 2d and the 9th, causing serious interference with navigation. On the 10th many of the smaller vessels of the coastwise trade off Massachusetts experienced great difficulty owing to high winds, and some were damaged or destroyed, while a number of seamen lost their lives.

The average amount of sunshine for the month was 122 hours, or slightly greater than that for January, 1910, but there was a deficiency as compared with the normal in most parts of the district. The highest percentage of sunshine recorded was 53 at Mount Weather, Va., and the lowest was 23 at Portland, Me.; but at no other station did the percentage fall below 34. The average for all stations was 41, which is 6 per cent less than the average for December, 1910. The number of days with 20 per cent or less of the possible sunshine averaged 14; the number with 80 per cent or more varied from 5 to 10, except at Eastport, Me., where it was 0.

TABLE 1.—Climatological data for January, 1911. District No. 1, North Atlantic States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Maine.</i>																				
Bar Harbor.....	Hancock.....	20	25	24.2	+ 2.6	54	21	- 8	18	38	4.55	- 0.48	1.00	11.0	10	16	5	10	sw.	Wm. Miller.
Cornish.....	York.....	778	56	23.1	+ 3.1	52	30	- 13	17	43	2.94	- 0.64	0.79	15.0	9	9	8	14	nw.	T. H. West.
Eastport.....	Washington.....	53	39	22.0	+ 1.9	50	3	- 12	17	40	2.98	- 0.86	0.66	17.8	15	4	7	20	w.	U. S. Weather Bureau.
Ellsworth.....	Hancock.....	1	19	19.8	-	49	3	- 12	18	43	3.43	-	0.90	11.0	16	10	4	11	nw.	S. P. Sutton.
Fairfield.....	Somerset.....	90	26	19.6	+ 3.8	44	21	- 0	81	33	1.98	- 1.04	0.80	10.2	6	14	6	11	..	Edward F. Parker.
Farmington.....	Franklin.....	450	14	16.4	+ 1.3	44	21	- 14	19	48	1.96	- 1.97	0.62	15.5	10	11	7	13	nw.	State Normal School.
Gardiner.....	Kennebec.....	163	19	22.2	+ 4.6	49	31	- 7	18	44	2.73	- 1.02	0.62	10.5	11	13	2	16	nw.	Samuel D. Soule.
Greenville.....	Piscataquis.....	1,000	7	11.5	-	40	21	- 18	18	44	2.91	-	1.10	26.8	11	..	..	..	..	U. S. Weather Bureau.
Houlton.....	Aroostook.....	362	9	13.1	-	40	21	- 23	17	48	1.25	-	0.40	17.0	4	18	4	9	n.	Bangor & Aroostook R. R.
Lewiston.....	Angroscoggins.....	185	37	20.6	+ 2.4	48	2	- 4	18	38	2.75	- 1.45	0.58	13.5	11	10	7	14	ne.	Union Water Power Co.
Madison.....	Somerset.....	257	8	12.7	-	46	32	- 28	18	45	2.28	-	0.54	13.5	10	15	2	14	nw.	Wm. Jardine.
Millinocket.....	Penobscot.....	386	8	13.2	-	40	3	- 22	18	48	2.87	-	0.91	26.0	10	14	3	14	nw.	H. S. Ferguson.
North Bridgton.....	Cumberland.....	450	18	21.8	+ 3.4	47	2	- 10	19	37	2.75	- 0.78	1.06	15.0	8	10	12	9	n.	G. E. Chadbourne.
Orono.....	Penobscot.....	129	42	18.2	+ 2.0	48	3	- 20	18	42	3.21	- 0.94	0.80	19.8	12	9	8	14	nw.	Agr. Exp. Station.
Patten.....	do.....	550	9	11.8	-	40	21	- 30	17	52	3.13	-	0.80	31.6	8	8	8	12	n.	Bangor & Aroostook R. R.
Portland.....	Cumberland.....	99	40	24.1	+ 2.1	50	2	0	16	39	2.58	- 1.23	0.59	11.2	12	8	15	8	nw.	U. S. Weather Bureau.
Presque Isle.....	Aroostook.....	1	10.8	-	42	3	- 33	18	53	2.68	-	0.55	18.6	10	13	0	18	s.	S. L. Merriman.	
Rumford Falls.....	Oxford.....	505	18	16.7	+ 0.2	42	21	- 8	16	39	1.97	- 1.55	0.66	12.1	10	18	4	9	nw.	Charles A. Mixer.
Winslow.....	Kennebec.....	90	16	19.4	-	45	3	- 16	18	41	2.24	-	0.58	11.8	8	14	4	13	sw.	Hollingsworth & Whitney Co.
<i>New Hampshire.</i>																				
Alstead Center.....	Cheshire.....	1,120	7	23.2	+ 4.2	47	21	- 4	16	26	1.65	- 1.37	0.54	11.0	10	12	4	15	nw.	Frank Dewing.
Benton.....	Grafton.....	1	19.4	-	47	2	- 11	17	29	1.81	-	0.45	7.5	8	14	6	11	nw.	N. H. State Sanatorium.	
Bethlehem.....	do.....	1,470	19	17.2	+ 1.8	51	2	- 13	16	42	2.05	- 0.28	0.48	10.5	9	12	5	14	n.	Benj. Tucker.
Concord.....	Merrimack.....	350	51	23.8	+ 2.6	57	2	- 2	16	35	1.68	- 1.66	0.76	2.9	14	6	8	17	nw.	U. S. Weather Bureau.
Durham.....	Stafford.....	88	16	25.2	+ 2.5	57	2	- 8	6	39	1.37	- 2.51	0.62	6.0	10	14	6	11	nw.	Agr. Exp. Station.
Franklin.....	Merrimack.....	440	12	22.6	-	44	21	- 4	16	31	2.26	-	0.50	5.5	11	11	8	12	nw.	Dr. C. P. Webster.
Grafton.....	Grafton.....	863	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	nw.	Perley R. Kimball.
Hanover.....	do.....	603	77	21.3	+ 4.4	46	2	- 9	57	37	1.41	- 1.24	0.36	3.2	10	9	4	18	nw.	Dartmouth College.
Keene.....	Cheshire.....	506	26	25.6	+ 4.7	49	21	- 2	17	31	2.12	- 0.59	0.68	2.5	11	9	10	12	nw.	Samuel Wadsworth.
Nashua.....	Hillsboro.....	125	26	26.8	+ 4.3	54	2	1	18	35	2.14	- 1.91	0.88	2.0	15	..	..	..	..	Jackson Company.
Newton.....	Rockingham.....	23	26.0	+ 3.0	58	2	- 4	17	33	2.19	- 1.51	0.65	3.0	11	8	14	9	nw.	W. C. Gale.	
Plymouth.....	Grafton.....	500	23	19.0	+ 2.6	42	21	- 11	19	34	2.43	- 1.19	0.60	13.8	9	14	0	17	w.	Hattie G. Trow.
<i>Vermont.</i>																				
Bloomfield.....	Essex.....	4	15.4	15.4	-	50	3	- 25	18	42	1.43	-	0.40	14.0	13	17	7	7	s.	Lyman Falls L. & P. Co.
Cavendish.....	Windsor.....	910	8	21.2 ^c	-	50	3	- 8	54	34	1.38	-	0.65	2.5	5	12	5	11	..	Miss M. A. Kingsbury.
Chelsea.....	Orange.....	830	16	17.8	+ 2.8	45	21	- 13	53	39	1.73	- 1.38	0.60	13.0	8	9	5	17	n.	W. F. Dewey.
Jacksonville.....	Windham.....	1,000	26	23.6	+ 5.1	55	1	- 8	21	48	4.04	- 0.85	1.20	7.0	12	15	7	9	sw.	Martha French.
Manchester.....	Bennington.....	980	12	23.6	-	54	2	- 5	25	28	1.93	-	1.18	T.	4	9	4	18	se.	N. M. Canfield.
St. Johnsbury.....	Caledonia.....	711	18	18.4	+ 3.5	49	30	- 18	18	43	1.74	- 0.71	0.54	8.2	9	11	8	12	se.	Fairbanks Museum.
Woodstock.....	Windsor.....	700	19	19.5	+ 4.1	45	21	- 14	18	43	1.80	- 1.17	0.76	5.5	8	9	2	20	..	John S. Eaton.
<i>Massachusetts.</i>																				
Amherst.....	Hampshire.....	222	27	27.6	+ 4.0	50	2	2	18	32	2.36	- 1.10	0.80	1.8	12	14	7	12	nw.	Agr. Exp. Station.
Blue Hill.....	Norfolk.....	640	27	28.6	+ 3.6	55	2	2	16	40	3.07	- 1.21	0.80	1.0	18	8	5	18	w.	Blue Hill Observatory.
Boston.....	Suffolk.....	124	41	31.8	+ 4.8	60	2	4	16	30	2.28	- 1.54	0.88	0.7	15	8	6	17	w.	U. S. Weather Bureau.
Chestnut Hill.....	do.....	124	31	30.8	+ 4.4	58	21	4	17	30	3.05	- 1.28	0.98	10	19	2	10	..	..	Met. Water Board.
Clinton.....	Worcester.....	370	15	27.6	-	57	2	1	17	37	3.09	-	1.23	1.2	14	12	12	7	..	..
Fall River.....	Middlesex.....	139	21	27.4	+ 3.6	58	2	0	17	32	2.57	- 0.77	0.92	1.5	8	6	17	sw.	Fred A. Tower.	
Fitchburg.....	Bristol.....	200	45	32.4	+ 3.7	55	3	7	18	33	3.29	- 1.28	1.10	2.2	17	7	15	9	nw.	C. V. S. Remington.
Framingham.....	Worcester.....	550	28	27.8	+ 4.2	51	21	2	16	28	2.49	- 1.63	0.60	1.7	11	12	3	11	w.	Dr. A. P. Mason.
Hyannis.....	Middlesex.....	160	31	30.4	+ 4.7	57	2	2	17	32	2.75	- 1.65	0.81	1.5	13	13	1	16	..	Met. Water Board.
Lawrence.....	Barnstable.....	31	26	31.8	+ 1.1	47	3	8	17	33	3.46	- 0.41	0.62	5.2	17	10	13	8	nw.	C. F. Sleeper.
Lowell.....	do.....	51	27	27.6	+ 3.8	60	2	- 1	16	33	2.52	- 1.59	0.85	3.0	16	8	7	7	nw.	Essex Company.
Middleboro.....	Middlesex.....	100	26	29.1	+ 5.3	57	2	2	16	28	2.66	- 1.47	0.94	12	..	..	..	..	..	Props. Locks & Canals.
Plymouth.....	Hampden.....	53	25	31.0	+ 4.3	57	4	0	17	36	3.00	- 1.40	0.61	0.6	14	5	9	17	sw.	A. R. Gurney.
Monson.....	Worcester.....	420	27	28.1	+ 4.0	56	2	2	18	36	3.15	- 0.96	0.65	3.0	13	12	10	9	nw.	Dr. G. E. Fuller.
Nantucket.....	do.....	15	25	33.9	+ 1.8	53	3	12	17	38	3.77	+ 0.35	1.18	4.3	19	8	9	14	nw.	U. S. Weather Bureau.
New Bedford.....	Bristol.....	88	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	..	City Engineer.
Norfolk.....	do.....	244	8	29.3	-	60	2	- 4	17	31	4.61	-	1.26	T.	10	15	6	10	..	Ruby H. Martin.
Norhampton.....	Hampshire.....	205	30	28.0	-	50	21	- 31	47	31	4.31	-	0.89	T.	8	11	4	16	nw.	D. E. Hoxie.
Plymouth.....	Plymouth.....	26	30.6	-	-	56	4	5	17	34	3.22	-	0.70	1.0	14	10	8	13	..	Laura B. Knapp.
Provincetown.....	Barnstable.....	40	24	32.2	+ 2.4	50	21	9	16	26	2.92	- 0.73	1.05	1.0	11	14	0	17	w.	Gideon Bowley.
Rockport.....	Essex.....	25	9	30.8	-	52	2	5	16	30	2.99	-	0.75	0.0	10	9	9	13	nw.	C. F. P. Bearse.
Rutland.....	Worcester.....	1,160	9	25.4	-	54	2	- 2	15	36	2.99	-	0.91	1.9	10	11	4	16	..	State Sanatorium.
South Egremont.....	Berkshire.....	764	9	23.4	-	53	2	- 2	16	35	3.35	-	1.25	9	..	..</td				

TABLE 1.—Climatological data for January, 1911. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.		
<i>New York—Contd.</i>																					
Amsterdam.	Montgomery.	277	7	22.5	.....	49	2	-6	16	26	1.68	.....	0.53	3.0	9	12	3	16	w.	Emery Elwood.
Athens.	Greene.	90	9	28.1	.....	51	2	-4	5†	31	2.24	.....	0.88	0.5	9	8	6	17	sw.	E. C. Brooks.
Ballston Lake.	Saratoga.	400	7	23.3	.....	48	2	-3	6	31	1.62	.....	0.45	3.7	12	10	0	21	w.	George R. Schaeber.
Bedford.	Westchester.	450	20	31.6	+ 4.3	54	2†	5	5	40	2.32	- 1.32	0.83	2.0	16	11	6	14	.....	Dr. L. Rosenberg.
Binghamton.	Broome.	875	20	28.5	+ 5.4	53	2	0	4	30	2.35	+ 0.37	0.98	5.3	13	5	6	20	nw.	U. S. Weather Bureau.	
Buckville.	Madison.	1,350	14	23.0	+ 3.5	48	27	-11	17	29	1.90	- 1.68	0.24	8.0	15	7	6	18	nw.	L. W. Griswold.	
Boyd's Corners.	Putnam.	560	29	.....	.....	.....	.....	.....	.....	.....	2.83	- 1.12	.....	.....	.....	.....	.....	.....	.....	Thomas Manning.
Carmel.	do.	500	19	27.0	+ 3.0	50	3	1	5	42	3.32	- 0.62	0.82	1.0	11	8	8	15	nw.	Do.	
Chatham.	Columbia.	470	10	27.8	+ 4.7	55	2	0	5	26	2.10	- 0.49	0.83	0.5	10	10	6	15	n.	Morton R. Tank.	
Cooperstown.	Otsego.	1,250	57	.....	.....	.....	.....	.....	.....	.....	2.88	+ 0.15	0.57	.....	15	10	8	13	s.	Elizabeth C. Keese.
Corinth.	Saratoga.	542	9	.....	.....	.....	.....	.....	.....	.....	2.35	.....	0.52	.....	10	.....	.....	.....	.....	A. M. Hollister.
Cortland.	Cortland.	1,129	49	27.4	+ 4.9	48	2	-2	5	23	2.42	- 0.20	0.52	6.4	15	9	8	14	s.	F. G. Baker.	
Cutchogue.	Suffolk.	32	34	32.3	+ 2.1	52	28	13	18	31	4.51	+ 0.61	1.41	2.5	13	8	15	8	nw.	Wm. A. Fleet.	
De Ruyter.	Madison.	1,300	8	25.4	.....	46	2†	-14	5	37	2.45	.....	0.39	5.1	14	5	5	21	s.	B. D. Crandall.
Easton.	Washington.	21	.....	.....	.....	.....	.....	.....	.....	.....	2.11	- 0.31	0.86	6.0	6	.....	.....	.....	.....	H. Tabor.
Elmira.	Chemung.	863	32	31.6	+ 7.0	54	2†	3	5	37	1.34	- 0.71	0.50	.....	7	3	14	14	nw.	Gerity Bros.
Fort Plain.	Montgomery.	316	7	25.9	.....	53	3	-6	5	29	1.57	.....	0.30	4.0	12	13	6	12	w.	Abram Devendorf.
Glens Falls.	Warren.	340	20	22.5	+ 4.1	45	2†	7	17†	35	2.21	- 0.66	0.65	11.5	15	9	2	20	w.	Prof. C. L. Williams.	
Gloversville.	Fulton.	850	19	20.6	+ 2.9	43	2	-10	5	29	2.09	- 1.20	0.38	13.5	10	9	8	14	w.	W. L. McLean.	
Greenfield Center.	Saratoga.	314	13	22.6	+ 2.9	56	27	-7	5†	48	2.51	- 1.07	0.56	.....	9	12	4	15	sw.	S. E. Darro.
Greenwich.	Washington.	425	14	24.2	+ 4.0	52	2	-6	17	30	2.82	+ 0.39	0.61	5.7	13	9	13	9	s.	H. J. Whitecomb.	
Griffin Corners.	Delaware.	2,260	11	27.4	+ 5.7	58	21	-1	16	34	2.51	+ 0.17	0.87	1.0	8	10	8	13	w.	H. O. Judd.	
Haskinville.	Steuben.	16	.....	.....	.....	.....	.....	.....	.....	.....	1.31	- 0.66	0.20	3.0	10	6	6	19	.....	W. G. Collins.
Homer.	Cortland.	20	24.8	+ 0.9	49	2	-9	5	30	2.48	.....	0.69	6.5	14	6	6	6	19	nw.	Chas. C. Mortimer.
Hoosick Falls.	Rensselaer.	410	9	.....	.....	.....	.....	.....	.....	.....	2.91	.....	1.20	4.0	13	.....	.....	.....	.....	Theo. C. Remonda.
Indian Lake.	Hamilton.	1,705	12	19.0	+ 2.8	46	3	-20	5	43	1.22	- 1.67	0.30	4.5	8	13	3	15	n.	M. D. Clinton.	
Jeffersonville.	Sullivan.	1,240	8	27.0	.....	47	28	1	5	33	3.27	.....	0.54	1.0	12	13	5	13	se.	Roger Greene.
Lake Pleasant.	Hamilton.	4	19.2	.....	.....	41	2	-23	5	43	1.20	.....	0.50	.....	4	.....	.....	.....	.....	Lester Sevier, Jr.
Liberty.	Sullivan.	2,300	29	24.2	+ 3.2	47	1	0	4†	37	3.26	+ 0.43	0.95	2.0	11	15	2	14	nw.	Chas. W. Townsend.	
Little Falls.	Herkimer.	924	13	.....	.....	.....	.....	.....	.....	.....	2.58	+ 0.15	0.48	7.5	11	11	7	13	.....	J. P. Davis.
Mohonk Lake.	Ulster.	1,245	5	27.6	+ 4.0	48	2†	4	5	25	2.61	- 0.35	1.15	1.2	4	10	9	12	w.	F. E. Carruth.	
Morehouseville.	Hamilton.	1,697	3	19.2	.....	46 ^e	2	-20	5	39 ^e	4.20	.....	0.75	18.0	18	13	5	13	w.	A. K. Smiley.
Mount Hope.	Westchester.	200	14	.....	.....	.....	.....	.....	.....	.....	2.58	.....	0.46	7.5	11	11	7	13	.....	W. H. Lee.
Newark Valley.	Tioga.	825	24	.....	.....	.....	.....	.....	.....	.....	1.79	.....	1.20	4.0	13	4	2	25	s.	P. L. Clark.
New Berlin.	Chenango.	4	.....	.....	.....	.....	.....	.....	.....	.....	2.68	+ 0.29	0.63	5.0	10	7	5	19	.....	G. A. Yates.
New Lisbon.	Otsego.	1,234	21	23.1	+ 4.1	49	2	-15	5	34	2.27	- 1.52	0.76	1.1	12	6	11	14	nw.	U. S. Weather Bureau.	
New York City.	New York.	314	86	34.8	+ 4.6	54	2	15	5	24	2.27	.....	5.0	8	14	7	10	10	.....	W. G. Kenwell.
North Creek.	Warren.	1,002	3	20.0	.....	45	11	-11	5	41	1.53	.....	0.60	11.5	6	.....	.....	.....	P. C. Pickard.	
Northville.	Fulton.	742	9	.....	.....	.....	.....	.....	.....	.....	2.52	.....	0.45	8	12	5	12	16	.....	Geo. E. Fifeild.
Norwich.	Chenango.	1,015	5	24.8	.....	46 ^e	2	-5 ^e	5	30 ^e	1.17	.....	0.60	9.5	12	7	13	11	.....	C. W. Young.
Oneonta.	Otsego.	1,112	17	27.6	+ 4.7	52	2	-4	5	27	2.63	+ 0.31	0.60	12	10	5	16	16	sw.	R. S. Marshall.	
Oxford.	Chenango.	916	46	25.2	+ 3.0	45	2†	-7	5	37	2.97	+ 0.06	0.53	9.0	10	4	11	16	s.	W. E. Young.	
Port Jervis.	Orange.	470	27	28.6	+ 4.5	50	28	4	5	28	2.03	- 1.31	0.55	T.	12	14	5	12	w.	H. B. Fullerton.	
Salisbury.	Herkimer.	1,526	14	.....	.....	.....	.....	.....	.....	.....	2.46	- 0.74	0.60	14	12	9	11	12	.....	H. C. Townsend.
Scarsdale.	Westchester.	200	7	31.2	.....	54	26	8	18	34	2.10	.....	0.50	2.0	12	11	7	13	ne.	John W. Sly.
Setauket.	Suffolk.	40	23	33.4	+ 3.3	54	2	15	5†	30	3.27	- 0.69	1.10	1.5	14	14	4	13	w.	J. F. Shoemaker.	
Sherburne.	Chenango.	4	.....	.....	.....	.....	.....	.....	.....	.....	1.87	.....	0.43	6.9	10	9	1	21	s.	W. J. Haverly.
Southampton.	Suffolk.	10	32.8	+ 1.9	51	4	12	18	29	3.58	- 0.53	0.99	2.7	15	7	14	10	10	nw.	U. S. Military Academy.	
Southeast Reservoir.	Putnam.	310	16	.....	.....	.....	.....	.....	.....	.....	3.34	- 0.35	0.45	9.5	12	7	13	11	sw.	C. H. Wilmarth.
Spier Falls.	Saratoga.	400	10	23.0	.....	45	2	-10	17	34	2.22	.....	0.38	12	.....	.....	.....	.....	.....	Selah B. Strong.
Trenton Falls.	Oneida.	751	8	.....	.....	.....	.....	.....	.....	.....	2.04	.....	0.70	4.0	6	10	5	14	s.	E. B. Collins.
Tribeshill.	Montgomery.	268	8	1.60	0.70	4.0	6	11	9	12	16	W. L. Jagger.
Utica.	Oneida.	537	45	2.46	- 0.74	0.60	14	12	9	11	12	16	Geo. E. Fifeild.
Wading River.	Suffolk.	112	5	32.5	53	2†	8	5	36	4.20	1.28	2.8	16	11	9	11	16	sw.	C. W. Young.
Wappingers Falls.	Dutchess.	110	21	32.4	+ 8.3	52	28	12	1†	23	1.97	- 0.65	0.72	0.2	14	3	6	4	21	w.	R. S. Marshall.
Warwick.	Tioga.	538	17	27.8	+ 4.6	49	2†	-9	5	36	2.32	+ 0.02	0.44	3.9	14	5	12	14	nw.	W. E. Young.	
Waverly.	Albany.	824	29	27.8	+ 4.4	56	2	-6	5	34	0.83	- 1.12	0.44	3.0	4	6	4	21	w.	H. B. Fullerton.	
West Berne.	Orange.	946	17	24.9	+ 3.4	56	2	-6	5	34	4.25	+ 0.73	0.40	3.0	11	12	8	12	s.	H. C. Townsend.	
West Point.	Orange.	167	62	29.4	+ 1.7	53	28	5	5	30	4.25	+ 0.73	0.47	1.0	11	12	8	12	n.	John W. Sly.	
Windham.	Greene.	1,520	11	28.0	+ 5.2	57	2	-2	16	45	2.24	- 0.01	0.59	1.0	10	7	17	7	sw.	J. F. Shoemaker.	
<i>Pennsylvania.</i>																					
Altoona.	Blair.	1,181	23	37.3	+ 11.0	70	15	13	6	36	1.80	- 0.70	0.42	.....	9	.....	.....	.....	.....	C. W. Billin.
Bethlehem.	Northampton.	260	1	33.0	.....	52	28	12	5†	28	2.93	.....	0.79	2.5	15	9	6	16	w.	Prof. E. C. Roest.
Clearfield.	1,107	3	30.2	.....	52	14†</td														

TABLE 1.—Climatological data for January, 1911. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation in inches.				Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, .01 inch or more.	Number of partly cloudy days.	Number of cloudy days.			
<i>New Jersey.</i>																			
Asbury Park.	Monmouth.	22	23	36.2 ^a	+ 4.8	55 ^d	28	15 ^a	6 ^a	26 ^b	3.13	- 0.61	0.84	3.0	10	10	6	15	w.
Atlantic City.	Atlantic.	16	38	36.2	+ 3.7	55	28	17	5	26	4.01	+ 0.61	1.07	4.0	16	11	5	15	sw.
Bayonne.	Hudson.	50	21	33.4	+ 3.3	52	2 ^a	14	5	26	3.01	- 1.12	0.84	2.7	14	11	6	14	w.
Belfvidere.	Warren.	289	20	30.2	+ 2.7	49	28	8	5 ^a	32 ^b	3.31	- 0.44	0.69	1.5	15	10	5	16	s.
Bergen Point.	Hudson.	37	14	33.0	+ 2.8	53	3	14	5	26	3.44	- 0.93	1.91	2.0	14	9	9	13	se.
Boonton.	Morris.	413	21								2.87	- 1.33	0.71	1.4	16				Dr. W. H. Mitchell.
Bridgeton.	Cumberland.	30	30	36.5	+ 3.5	59	27	5	24	39	5.03	+ 1.29	1.77	4.5	12	10	7	14	nw.
Burlington.	Burlington.	12	27								3.84	+ 0.30	1.11	5.3	13	10	8	13	nw.
Canton.	Salem.	24	17								4.20	+ 0.70	1.31	6.0	10	10	6	15	s.
Cape May City.	Cape May.	17	27	36.4	+ 2.3	53	12	18	5	22	3.49	+ 0.12	0.57	2.3	16	14	3	14	u.s. weather bureau.
Charlottesville.	Passaic.	719	19	30.2	+ 3.1	55	27	1	5	37	2.80	- 1.56	0.55	2.0	11	10	6	15	nw.
Chatham.	Morris.	234	9								3.89		1.10	3.4	17				G. S. Briggs.
Clayton.	Gloucester.	126	18															M. A. Butler.	
College Farm.	Middlesex.	100	16	32.7	+ 2.8	54	2 ^a	11	5 ^a	32	3.52	0.00	1.00	5.2	16	11	8	12	nw.
Culvers Lake.	Sussex.	848	10								2.45		0.51	2.0	13	7	14	e.	G. B. Thrasher.
Dover.	Morris.	575	27	29.4	+ 2.8	51 ^d	27	7	5	30 ^b	3.32	- 1.17		2.5	13	3	12	16	s.
Elizabeth.	Union.	33	32	33.8	+ 3.7	51	2 ^a	10	18	27	3.44	- 0.66		3.4	17	10	9	12	w.
Flemington.	Hunterdon.	187	23	32.6	+ 3.0	50	2 ^a	5	24	36	3.08	- 0.39	0.67	3.0	17	10	8	13	sw.
Haddonfield.	Camden.	75	24	35.1	+ 5.1	59	2	5	24	38	3.51	+ 0.12	1.05	5.6	15	8	8	15	n.
Hanumonton.	Atlantic.	80	13								4.61	+ 0.66		7.1	13				C. F. Richardson.
Hightstown.	Mercer.	85	19	34.0	+ 3.1	55	3	6	24	37	3.36	- 0.33	1.11	4.5	10	10	8	13	sw.
Hightwood.	Bergen.	90	32	32.0		52	2	7	5	33	3.35		0.83	2.4	14			Charles J. Bates.	
Inlaytown.	Monmouth.	106	25															Ernst Wenger.	
Indian Mills.	Burlington.	76	22	35.8	+ 4.4	62	2	3	24	42	5.34	+ 1.64	1.80	4.5	14	11	7	13	sw.
Jersey City.	Hudson.	15	13	34.0	+ 3.2	52	2 ^a	15	5	21	3.20	- 0.66	0.80	5.2	12	10	8	13	nw.
Lakewood.	Ocean.	54	9	35.7		60	2	9	24	31	2.98		0.94	5.1	14	6	10	15	nw.
Lambertville.	Hunterdon.	95	25	33.7	+ 3.3	52	2 ^a	8	24	34	3.42	- 0.32	0.72	3.0	15	10	7	14	nw.
Layton.	Sussex.	550	12	28.4	+ 4.4	50	28	0	18	33	2.12	- 1.38	0.54	1.0	11	11	5	15	sw.
Little Falls.	Passaic.	175	8								3.12		0.90	2.5	13				A. Sweetman.
Long Branch.	Monmouth.	30	4	35.5		57	2	15	5	26	3.74		0.97	5.0	14	11	5	15	nw.
Mahwah.	Bergen.	312	9															B. B. Bobbitt.	
Moorestown.	Burlington.	71	49	34.8	+ 4.7	57	2	2	24	39	3.27	- 0.21	1.02	5.8	13	11	4	16	nw.
Newark.	Essex.	140	68	33.4	+ 3.8	53	28	12	5	27	3.34	- 0.42	1.17	3.5	12	8	6	17	nw.
New Brunswick.	Middlesex.	61	58	33.2	+ 2.7	53	2 ^a	10	18	30	1.00	0.80	7.0	14	10	9	12	w.	
Newton.	Sussex.	678	32								3.86	+ 0.28	1.17	5.8	12	10	6	15	W. L. Flick.
Northfield.	Atlantic.	4									3.83		0.80	4.7	15				H. A. Probert.
Paterson.	Passaic.	110	40	32.3	+ 2.9	52	27	12	5	26	2.80	- 1.26	0.73	2.7	15	8	10	13	D. W. Smith.
Phillipsburg.	Warren.	196	14	31.8	+ 3.9	51	28	9	5	27	3.05	- 0.60	0.65	2.3	14	12	5	14	s.
Plainfield.	Union.	100	25	32.7	+ 3.3	51	2	8	24	34	3.36	- 0.53	0.96	3.5	16	10	14	sw.	
Pleasantville.	Atlantic.	26	13								4.07	+ 0.67	0.93	3.5	12	11	5	15	John Neagle.
Pompton Plains.	Morris.	195	9								3.03		0.76	2.0	14				L. Van Glider.
Rancocas.	Burlington.	68	48								3.86	+ 0.28	1.17	5.8	12	10	6	15	M. S. Taylor.
Rivervale.	Bergen.	70	20															Spencer Haines.	
Somerville.	Somerset.	76	28	32.8	+ 3.6	51	3 ^a	7	24	34	3.34	- 0.14	0.90	3.0	16	8	8	15	P. Hardcastle.
South Orange.	Essex.	200	41	32.5	+ 3.8	52	2 ^a	13	5 ^a	27	3.43	- 0.71	0.70	4.0	12	12	6	13	ne.
Sussex.	Sussex.	442	21	30.0	+ 3.9	49	28	7	24	37	1.97	- 1.64	0.46	1.4	15	9	3	19	sw.
Trenton.	Mercer.	60	40															George Dymock.	
Tuckerton.	Ocean.	23	18	36.2	+ 4.5	60	2 ^a	10	24	32	4.35	+ 0.69	0.91	6.0	13	13	5	13	Paul H. Wendel.
Vineland.	Cumberland.	118	42															F. R. Austin.	
Woodbine.	Cape May.	43	20	37.2	+ 4.8	63	2	8	24	34	+ 4.26	+ 0.61	0.85	2.5	12	12	4	15	Alfred Chalmers.
<i>West Virginia.</i>	Grant.	2,500	10	33.4	+ 5.1	59	14	1	5	41	7.62	+ 2.30	1.59	6.0	18	8	5	18	Prof. H. A. Dodge.
Burlington.	Mineral.	875	15	35.2	+ 4.5	71	14	6	24	44	6.43	+ 3.93	1.75	9.0	9	8	17	6	W. L. Flick.
Franklin.	Pendleton.	4	47	37.8 ^a		64 ^a	13 ^a	0 ^a	24	36 ^b	5.21		1.30	5.0	9	14 ^a	2 ^a	14 ^a	J. W. Vandiver.
Lost City.	Hardy.	5	36.6			62	14	8	24	30	4.63		0.76	9.0	13	14	6	11	A. A. Martin.
Martinsburg.	Berkeley.	435	20	34.8	+ 4.5	69	14	12	25	41	3.74	+ 1.41	0.92	4.0	10	16	3	12	B. D. Hinegardner.
Moorefield.	Hardy.	900	15	34.0	+ 1.8	59	15	5	24	32	6.73	+ 4.36	1.75	6.0	12	4	18	G. W. Van Metre, C. E.	
Ronney.	Hampshire.	824	15	34.0	+ 2.8	69	11	9	24	37	5.19	+ 2.56	1.30	5.0	12	8	10	John C. Fisher.	
Upper Tract.	Pendleton.	1,230	13	39.0 ^a	+ 7.6	67 ^c	14	5 ^a	24	42 ^b	5.14	+ 2.59	1.18	3.0	9	7	12	J. M. Mallow.	
<i>Maryland.</i>	Anne Arundel.	45	33	36.6	+ 2.2	62	26	20	6	35	3.44	+ 0.06	0.75	3.0	7	12	6	13	W. M. Abbott.
Bachmans Valley.	Carroll.	860	18	35.9	+ 6.4	67	14	8	24	34	3.73	+ 0.30	0.73	5.0	12	7	6	Elmer E. Yingling.	
Baltimore.	Baltimore.	115	41	38.4	+ 5.0	62	27	20	5	26	3.48	+ 0.26	0.72	4.7	16	10	6	15	U. S. Weather Bureau.
Cambridge.	Dorchester.	25	13	40.6	+ 5.3	64	27	18	5	28	3.26	+ 2.16	2.21	1.5	12	15	2	14	T. E. Keenan.
Cheltenham.	Prince Georges.	230	11	39.4	+ 6.0	61	14	14	5	31	3.55		1.22	1.0	10	12	3	11	J. E. Burbank.
Chestertown.	Kent.	80	26	36.7	+ 4.3	59	3	11	24	28	3.39	+ 0.25	0.70	5.0	10	14	5	12	M. W. Thomas.
Chewaville.	Washington.	530	14	35.0	+ 4.4	64	14	3	24	37	3.98	+ 1.34	0.85	6.3	12	10	8	13	D. Paul Oswald.
Clear Spring.	Carroll.	650	14	34.2	+ 4.8	66	14	13	25	33	4.63	+ 1.35	1.11	5.2	10	13	11	7	W. W. Frantz.
Coleman.	Kent.	80	13	36.4		58	27	13	24	37	4.34	+ 1.05	1.01	5.0	10	10	11	James S. Harris.	
College Park.	Prince Georges.	170	21	37.8	+ 4.8	68	27	2	24	42	3.54	+ 0.54	0.67	5.0	10	14	7	sw.	Prof. H. J. Patterson.
Cumberland.	Allegany.	700	37	19	34.6	+ 4.1	58	27	13	5 ^a	3.42	+ 0.25	0.51	4.5	13	9</			

TABLE I.—*Climatological data for January, 1911. District No. 1—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Observers.			
				Mean	Departure from the normal.	Highest.	Date.	Lowest.	Date.	greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Delaware.</i>																				
Delaware City.....	Newcastle.....	20	9	35.2	.....	55	2†	15	24	25	4.04	.....	1.53	5.0	10	15	4	12	nw.	H. Morton Price.
Dover.....	Kent.....	40	23	38.6	+ 4.1	62	27	11	24	34	5.16	+ 2.04	2.00	3.0	11	13	6	12	nw.	Thos. F. Dunn.
Milford.....	do.....	20	27	40.0	+ 4.0	65	2	17	24	35	5.02	+ 1.90	1.60	2.0	13	14	4	13	sw.	C. J. Holzmueller.
Millsboro.....	Sussex.....	20	19	39.3	+ 4.9	68	2	17	5	33	3.16	+ 0.13	0.58	2.0	12	17	3	11	sw.	Rev. L. W. Wells.
Seaford.....	do.....	40	17	39.8	+ 5.7	65	2	18	5	33	3.34	+ 0.27	0.78	1.0	11	16	6	9	s.	E. B. Brown.
<i>District of Columbia.</i>																				
Washington.....		112	41	38.2	+ 5.3	68	27	15	24	30	3.92	— 0.45	0.79	5.5	13	10	5	16	s.	U. S. Weather Bureau.
<i>Virginia.</i>																				
Culpeper.....	Culpeper.....	450	3	37.7	.....	68	14	14	5†	31	3.74	.....	0.97	5.0	11	10	13	8	s.	Col. H. C. Burrows.
Dale Enterprise.....	Rockingham.....	1,350	31	37.6	+ 4.7	70	13†	7	24	39	5.30	+ 2.60	1.05	7.0	15	11	8	12	sw.	Rev. L. G. Heatwole.
Doswell.....	Hanover.....	134	10	42.8	.....	74	14	16	5†	36	3.18	.....	1.0	9	14	11	6	8	s.	Rich., Fdkshg. & Pot. R.R.
Eastville.....	Northampton.....	15	.....	43.8	+ 4.6	70	14	22	5	36	4.61	+ 0.73	1.10	3.5	13	15	5	11	sw.	Thos. B. Robertson.
Fredericksburg.....	Spotsylvania.....	100	22	40.8	+ 4.8	73	14	13	5	34	3.72	+ 0.79	1.16	2.2	15	14	9	8	s.	S. G. Howison.
Lincoln.....	Loudoun.....	500	10	35.5	+ 4.5	70	14	4	24	42	3.51	+ 0.53	0.80	3.5	9	13	8	10	nw.	Dr. Geo. Roberts.
Mount Weather.....	do.....	1,726	7	34.6	+ 7.3	66	14	12	4	36	3.61	+ 0.31	0.79	8.9	15	10	7	14	w.	U. S. Weather Bureau.
Quantico.....	Prince William.....	16	14	38.6	+ 5.6	68	14	14	5	33	3.96	.....	0.92	0.5	11	14	6	11	nw.	Rich., Fdkshg. & Pot. R.R.
Staunton.....	Augusta.....	1,380	19	39.8	+ 4.6	69	13	15	10	43	4.78	+ 2.00	1.02	3.5	11	12	8	11	sw.	Ernest Notnagel.
Stephens City.....	Frederick.....	710	19	36.6	+ 4.1	73	14	4	23	36	4.06	+ 1.58	0.68	4.8	13	11	2	18	sw.	Mrs. B. T. Argenbright.
Warsaw.....	Richmond.....	160	19	42.4	+ 6.3	72	14	17	5†	31	5.50	+ 2.86	1.95	3.0	13	3	13	15	s.	C. H. Constable.
Woodstock.....	Shenandoah.....	927	15	37.8	+ 4.9	74	14	8	24	35	4.04	+ 1.67	0.75	12.5	13	11	7	13	w.	Mrs. Adolyn G. Artz.

■, □, △, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

* Precipitation included in that of the next measurement.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Estimate by observer.

||| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for January, 1911. District No. 1, North Atlantic States.*

Stations.	River basins.	Day of month.																													Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Maine.</i>																																		
Ashland.	St. John.	.59	.19	.19																														2.80
Bar Harbor.	Coast.	.60	.50	.25	T.	T.	.45																										4.55	
Cornish.	Saco.	.20	.79		T.	.40	T.																									2.94		
Danforth.	Penobscot.	.25	.30	.28																												2.78		
Eastport.	Coast.	.02	.30	.22	.05																											2.98		
Ellsworth.	do.	.35	.03	.90	T.	.01	.06	.13	.64	.02																				3.43				
Eustis.	Kennebec.	T.	.36																													1.51		
Fairfield.	do.	*	.60																													1.98		
Farmington.	do.	.54		.02																												1.96		
Gardiner.	do.	.24	.32	.45																												2.73		
Greenville.	do.	.02	.25	.02	T.																											2.91		
Houlton.	St. John.																																1.25	
Howe Brook.	Penobscot.																																2.39	
Lewiston.	Androscoggin.	.21	.39	.22																													2.75	
Madison.	Kennebec.	*	.12	.54	.33																												2.28	
Millinocket.	Penobscot.	.06		.41																													2.87	
North Bridgton.	Saco.	.18	.88																														2.75	
Oquossoc.	Androscoggin.			.05																													1.45	
Orono.	Penobscot.	.16	.26	.47	.05																												3.21	
Patten.	do.	.06																															3.13	
Portland.	Coast.	.03	.25	.39	.20																											2.58		
Presque Isle.	St. John.	.55	.07	.35	T.	T.	.23	T.																								2.68		
Rumford Falls.	Androscoggin.	T.	.66	.03																												1.97		
The Forks.	Kennebec.	*	.55																														2.15	
Winslow.	do.	.19	.32	.40																													2.24	
<i>New Hampshire.</i>																																		
Alstead Center.	Connecticut.	.06	.54	.13	T.	.04																										1.65		
Benton.	do.	.12	.45		T.	.03																											1.81	
Bethlehem.	do.	T.	.39	.15		T.	.10																									2.05		
Brookline.	Merrimack.	.20	.45																														2.31	
Concord.	do.	.10	.38	.01	T.	.05	.03	.04	.10																						1.68			
Durham.	do.	.15	.03	.62																												1.37		
Franklin.	do.	.21	.50	.04																												2.26		
Grafton.	do.																																	
Hanover.	Connecticut.	.07	.36	.04																													1.41	
Keene.	do.	T.	.21	.37	.23																											2.12		
Nashua.	Merrimack.	.01	.07	.63	.05																											2.14		
Newton.	do.	.07	.65																														2.19	
Plymouth.	do.	.19	.60	.05	T.	T.	.10																									2.43		
<i>Vermont.</i>																																		
Bloomfield.	Connecticut.	.02	.14	.19																													1.43	
Cavendish.	do.	T.	.15	.65	T.	.03																										1.38		
Chelsea.	do.	T.	.35																														1.73	
Jacksonville.	do.	.45	.75																														4.04	
Manchester.	Hudson.	.27	.19	T.	T.																												1.93	
St. Johnsbury.	Connecticut.	T.	.22	.24																												1.74		
Vermont.	Woodstock.	.14	.16	.57																													1.95	
<i>Massachusetts.</i>																																		
Amherst.	Connecticut.	.10	.21	.52	.12	.01																											2.36	
Ashland.	Merrimack.	*	*	1.12																													2.80	
Bakers Bridge.	do.	.25	.48	.39																													2.31	
Bedford.	do.	.23	.60	.18	T.	T.																										2.45		
Blue Hill.	Coast.	.01	.42	.80	.30																											3.07		
Boston.	do.	.01	.21	.81	.08																											2.28		
Chestnut Hill.	do.	.45	.06	.98																												3.05		
Clinton.	Merrimack.	*	*	1.25																												3.09		
Concord.	do.	T.	.16	.51	.39																											2.57		
Fall River.	Coast.	.05	.55	1.10	.28																											3.29		
Fitchburg.	Merrimack.	T.	.28	.52	.15	T.	T.																								2.49			
Framingham.	do.	*	*	1.17																												2.75		
Haverhill.	Coast.	.11</td																																

TABLE 2.—*Daily precipitation for January, 1911. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for January, 1911. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for January, 1911. District No. 1—Continued.*

Stations.	River basins.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>New Jersey—Contd.</i>																																	
South Orange.....	Coast.....	.51	.54	.70	.32								T.	.03	.25	.35	T.	T.															3.43
Sussex.....	Hudson.....	.04	.30	.37	.11								T.	.02	.06	.46	.17															1.97	
Trenton.....	Delaware.....																																
Tuckerton.....	Coast.....	*	.98	.91	.20									.06																			4.35
Vineland.....	do.....																																
Woodbine.....	do.....	.18	.69	.85	.18								T.	.70		.21	T.																4.26
<i>West Virginia.</i>																																	
Bayard.....	Potomac.....	.28	.06	.50	.10								T.	.25	.159	.20	.74	T.	.05	T.												7.62	
Burlington.....	do.....	*	*	1.40										.10																			6.43
Franklin.....	do.....	.54	.251	.30																													5.21
Harpers Ferry||	da.....	.40	.41	.42									T.																				3.73
Lost City.....	do.....	.76	.75	.25										.06																			4.63
Martinsburg.....	do.....	*	.52	.75																													3.74
Moorefield.....	do.....	.47	.13	.75																													6.73
Romney||	do.....	.25	.21	.65	.50																												5.19
Upper Tract.....	do.....	.72	T.	1.18	T.																												5.14
<i>Maryland.</i>																																	
Annapolis.....	Coast.....	.75																															3.84
Baltimore Valley.....	do.....	.50	.55	.30									T.	.05	.63	.05	T.															3.42	
Baltimore.....	do.....	.70	.04	.56	.03									.12																		3.74	
Cambridge.....	do.....	.21	.53	.21	.23									.05																		5.48	
Cheltenham.....	do.....	.45	.30	1.22	.10																											3.28	
Chestertown.....	do.....	.22	.47	.70	T.																												3.56
Chewsville.....	Potomac.....	.48	.42	.73																													3.35
Clear Spring.....	do.....	.45	1.11	.30									T.																				4.99
Coleman.....	do.....	.20	.46	1.01	.05																												4.68
College Park.....	do.....	.40	.30	.63	.18																												3.33
Cumberland.....	do.....	.08	.35	.42	.22																												3.46
Darlington.....	Coast.....	.30	.39	.51	.12								T.	.04	.43	.04	.54															4.42	
Denton.....	do.....	.13	.43	1.70	.25																											2.19	
Easton.....	do.....	.45	.25	.85	.18																												2.19
Emmitsburg.....	Potomac.....	.80	.50	.50	.01	T.																										4.96	
Fallston.....	Coast.....	.30	.46	*	.11								T.																			2.59	
Frederick.....	Potomac.....	.55	.45	.33	.11																											3.67	
Frostburg.....	do.....	.20	.56	T.																													4.61
Great Falls.....	do.....	.06	.45	.03	.35																												2.83
Green Sp. Furnace.....	do.....	.52	.30	.82	.04																												4.20
Kedysville.....	do.....	.42	.48	.57	.09																												4.30
Lake Montebello.....	Coast.....	.62	.08	.47	.09																												3.14
La Plata.....	do.....	*	*	2.96																													4.12
Laurel.....	do.....	.80	.25	.68	.10																												4.31
Monrovia.....	Potomac.....	.47	.35	.33	.12								T.																				3.41
Pocomoke City.....	Coast.....	*	*	1.57									T.																				3.10
Princess Anne.....	do.....	.12	.48	.66	.10								T.																				3.79
Salisbury.....	do.....	.05	.15	.60	.20								T.																				2.81
Solomons.....	do.....	.25	.17	1.82	.05								T.																				4.22
State Sanatorium.....	Potomac.....	*	1.00	.65	.12																												4.64
Sudlersville.....	Coast.....	*	.65	.79	.15								T.																				4.41
Takoma Park.....	do.....	.70	.08	.70									T.																				3.56
Towson.....	do.....	.30	.09	.32	.09								T.																				2.00
Van Bibber.....	do.....	.79	.09	.66																													2.72
Westernport.....	Potomac.....	.45	.06	.55																													5.30
Woodstock.....	Coast.....	.30	.10	.18	.07	T.							T.																				1.90
<i>Delaware.</i>																																	
Delaware City.....	Coast.....	1.53	.22	.52	T.								T.																				4.04
Dover.....	do.....	.13	.50	2.00	T.																												5.16
Milford.....	do.....	.07	.71	1.60	.30								T.																				5.02
Millsboro.....	do.....	.20	.27	.58	.22																												3.16
Seaford.....	do.....	.14	.78	.65	.15																												

MONTHLY WEATHER REVIEW.

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TABLE 3.—Maximum and minimum temperatures at selected stations, January, 1911. District No. 1, North Atlantic States.

Date	Maine.												Massachusetts.								Connecticut.							
	Eastport.		Greenville.		Orono.		Portland.		Presque Isle.		Rumford.		Concord, N. H.		Amherst.		Boston.		Middle- boro.		Nantucket.		Provi- dence, R. I.		Cream Hill.		Hartford.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	37	6	16	-9	34	-1	36	15	20	-5	20	-7	30	4	34	16	46	22	44	8	44	25	45	19	38	16	37	19
2...	47	38	40	16	46	27	50	36	49	20	34	22	57	30	50	32	60	46	55	42	50	44	56	44	50	38	52	36
3...	50	42	38	29	48	38	48	36	42	32	40	32	50	32	47	33	55	43	54	49	53	48	56	45	50	33	51	32
4...	49	9	30	-1	39	18	36	9	32	5	30	2	32	7	33	8	43	15	57	27	51	23	46	15	33	3	32	12
5...	28	7	13	-16	20	-3	24	5	22	-15	19	-5	23	4	24	4	30	14	30	8	34	23	29	11	23	2	26	10
6...	18	12	11	-5	15	3	23	12	20	-9	19	9	21	10	24	12	32	18	27	10	37	21	29	15	26	7	30	15
7...	38	13	19	-5	19	2	22	14	13	-20	20	7	28	12	38	20	44	27	45	22	48	34	45	24	37	15	41	22
8...	29	22	23	4	26	4	40	11	23	-12	25	-1	38	8	42	16	46	30	47	16	43	31	47	25	40	21	46	25
9...	41	31	31	22	39	13	41	29	33	20	36	24	37	23	40	23	44	28	43	33	45	30	44	25	34	22	43	24
10...	34	25	27	12	36	20	41	26	32	23	30	12	37	19	39	23	43	27	43	26	41	28	35	13	39	24	35	24
11...	42	25	40	11	38	14	44	30	32	12	36	14	42	19	40	28	46	34	44	29	46	33	45	31	40	14	43	31
12...	38	11	38	2	37	17	40	18	35	0	39	7	40	24	42	28	44	32	44	36	42	32	44	31	38	25	42	32
13...	38	12	24	-11	25	-6	30	12	26	-20	26	-2	30	18	33	26	30	28	38	23	41	31	38	30	36	24	35	31
14...	36	21	24	-12	26	12	30	22	31	0	27	20	31	28	35	31	39	34	39	33	41	37	37	33	36	32	38	33
15...	33	9	27	3	24	15	32	11	20	3	29	6	33	11	38	18	39	19	40	33	40	23	32	27	39	20	32	20
16...	9	-7	3	-15	22	-9	12	0	10	-17	4	-8	11	-2	18	6	19	4	33	8	25	12	23	8	27	-1	20	7
17...	-7	-12	-8	-16	4	-11	12	0	7	-22	6	-4	14	2	20	6	22	9	20	0	21	12	20	8	18	2	20	8
18...	10	-11	10	-18	9	-20	17	1	-1	-33	13	-4	23	1	28	2	20	8	23	3	24	16	23	7	25	5	28	10
19...	34	10	19	-7	31	-3	32	13	22	-10	29	-7	34	3	37	10	40	17	38	3	36	23	39	14	34	12	39	13
20...	28	6	25	-6	31	4	33	17	22	-10	26	7	31	19	39	24	38	28	32	22	37	30	39	28	38	21	40	29
21...	45	16	38	-6	41	-1	46	33	37	-16	42	14	46	29	40	31	48	32	46	28	45	36	45	34	36	27	42	33
22...	38	12	32	3	40	12	34	18	34	0	24	10	31	17	32	20	40	24	41	26	38	28	39	25	30	18	37	25
23...	17	6	18	-13	23	1	22	14	27	-20	20	4	27	12	36	16	30	22	33	19	37	27	33	20	35	12	37	20
24...	34	15	28	4	32	-2	38	15	25	-3	32	3	39	10	42	14	42	23	38	9	36	26	40	21	38	14	41	20
25...	34	8	31	4	32	21	41	23	31	5	35	14	41	28	44	27	43	33	42	27	42	32	42	39	20	44	30	
26...	25	7	6	-2	24	2	23	15	17	-14	21	12	30	20	38	30	37	28	42	23	41	33	42	31	40	26	43	33
27...	31	25	27	6	28	11	31	16	22	5	33	18	34	24	35	31	39	26	41	29	42	35	40	39	34	44	32	
28...	32	17	26	8	30	22	34	14	20	7	32	10	39	15	42	25	46	25	47	29	44	31	45	30	44	30	46	30
29...	37	7	26	-3	29	-3	36	11	19	-6	30	6	40	13	37	22	42	22	42	19	41	27	45	25	38	24	40	26
30...	39	3	36	0	38	15	44	5	35	12	40	1	43	5	42	10	46	16	47	26	44	20	46	15	30	18	46	15
31...	9	-2	0	-10	31	-4	17	3	19	-7	6	-3	15	4	22	8	25	11	26	10	25	15	23	10	30	3	24	9
Mn.	31.7	12.4	23.2	-0.2	29.6	6.7	32.6	15.6	24.7	-3.1	26.5	6.9	33.1	14.4	35.8	19.4	39.6	24.0	40.2	21.8	39.8	28.0	39.5	23.6	35.1	18.0	38.2	22.7

Date	New York.												Pennsylvania.												Asbury Park, N. J.			
	New Haven, Conn.		Addison.		Albany.		Bingham- ton.		Indian Lake.		Little Falls.		New York.		Everett.		Harris- burg.		Philadel- phia.		Scranton.		State Col- lege.		Wellsboro.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	47	22	39	19	38	20	44	19	29	2	.....	.....	49	25	40	22	36	23	50	26	47	21	35	21	35	17	42	24
2...	51	43	51	39	52	38	53	43	45	27	.....	.....	54	48	39	35	42	33	55	45	50	45	42	33	46	34	50	.....
3...	47	34	46	22	48	27	48	19	46	23	.....	.....	54	31	45	14	45	27	53	33	46	25	41	24	46	22	53	40
4...	34	13	23	5	28	4	19	0	25	0	.....	.....	31	16	28	15	27	18	33	19	25	8	25	12	26	6	46	22
5...	28	11	20	-3	25	3	18	1	12	-20	.....	.....	28	15	23	9	28	16	33	17	22	8	18	17	4	-4	.....
6...	33	16	33	0	27	11	32	7	11	1	.....	.....	39	20	40	13	37	19	41	22	35	15	34	5	32	-3	.....	15
7...	42	23	40	22	33	21	34	27	23	8	.....	.....	43	30	47	28	44	25	48	33	42	28	40	26	39	21	40	20
8...	44	27	47	18	42	17	42	28	35	5	.....	.....	46	36	46	23	44	30	50	34	45	26	40	33	42	16	40	20
9...	42	29	41	23	38	22	38	20	33	16	.....	.....	43	29	28	24	43	28	44	33	40	23	42	23	45	32	43	37
10...	40	27	43	7	32	18	35	17																				

TABLE 3.—*Maximum and minimum temperatures at selected stations, January, 1911. District No. 1—Continued.*

Date.	New Jersey.								Martinsburg, W. Va. ^{\$}	Maryland.								Millsboro, Del.	Washington, D. C.	Virginia.									
	Atlantic City.		Hights- town.		Newton.		Phillipe- burg.			Baltimore.		Darling- ton.		Frederick.		Western Port.					Culpeper.		Fredericks- burg.		Staunton.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	51	33	41	19	42	20	35	18	45	29	41	21	34	25	34	27	53	23	37	29	33	27	34	28	50	20			
2....	50	43	53	38	47	42	43	31	55	40	49	38	44	32	41	33	68	35	54	36	51	32	56	33	54	31			
3....	52	35	55	43	44	35	38	35	50	31	50	37	44	36	45	26	64	43	52	31	49	36	55	40	47	46			
4....	35	19	43	17	35	13	36	19	31	22	38	20	37	20	28	15	43	23	31	22	35	21	40	22	31	17			
5....	33	17	30	13	26	9	29	15	32	20	29	13	31	16	27	12	36	17	34	19	35	14	36	13	32	18			
6....	40	23	43	18	35	16	41	21	47	26	39	13	41	20	45	15	46	21	47	26	45	23	48	22	46	21			
7....	45	31	45	24	40	22	44	24	51	33	48	27	46	27	47	23	52	28	50	31	48	28	51	26	47	28			
8....	46	37	49	27	46	26	49	28	47	35	46	31	46	29	50	25	53	29	50	34	46	31	51	31	50	32			
9....	45	32	44	31	42	30	34	26	45	32	45	30	46	30	47	26	48	32	48	29	45	34	50	36	39	31			
10....	46	26	44	23	43	22	48	28	44	24	42	24	44	24	47	25	47	27	46	15	48	18	47	15					
11....	43	36	42	27	40	27	62	21	50	33	42	29	42	28	58	23	54	30	55	34	48	31	59	34	60	17			
12....	51	38	45	37	42	33	60	34	57	41	50	38	56	39	58	45	56	41	56	44	56	47	59	51	68	54			
13....	48	39	43	31	36	29	43	39	47	38	45	35	44	37	46	39	56	41	46	40	54	41	56	41	69	44			
14....	45	39	41	35	39	34	69	39	60	42	44	38	61	40	67	44	63	40	62	41	68	39	73	40	68	49			
15....	47	32	43	36	45	29	57	40	60	34	45	38	62	38	60	32	55	37	56	34	64	52	68	55	63	57			
16....	32	20	39	19	29	15	30	23	34	23	38	22	38	24	33	20	37	21	34	21	54	25	55	29	40	25			
17....	27	19	27	16	28	17	28	20	28	21*	26	15	27	20	24	19	26	18	27	21	26	20	29	19	25	22			
18....	32	18	34	12	33	11	33	18	33	22	32	15	31	20	28	20	33	19	32	21	32	20	32	20	30	20			
19....	41	22	40	16	38	17	47	23	45	28	41	20	44	20	40	28	40	25	45	23	42	17	46	16	46	20			
20....	40	31	43	25	39	28	46	29	43	33	39	28	44	29	48	30	46	29	46	31	42	24	48	25	53	25			
21....	47	34	47	31	40	32	54	29	57	34	52	30	52	33	54	20	59	31	58	36	55	33	59	35	60	35			
22....	43	27	44	26	34	25	31	29	39	27	45	26	48	27	35	30	52	29	40	26	51	28	59	29	35	32			
23....	37	25	39	22	36	19	38	14	38	25	36	23	34	15	38	13	40	25	37	23	36	19	41	24	43	22			
24....	40	19	43	6	40	15	39	13	44	24	40	14	38	10	43	10	40	18	45	15	44	14	47	17	45	18			
25....	43	27	47	15	46	19	43	12	48	27	46	14	42	16	49	17	54	24	50	21	46	18	55	21	55	24			
26....	45	36	39	27	37	32	41	15	42	35	39	31	40	29	43	19	51	37	50	34	53	29	60	31	62	30			
27....	50	40	46	34	49	35	63	33	62	40	58	30	62	35	57	42	62	42	68	39	65	35	68	39	65	43			
28....	55	37	51	43	51	37	50	39	59	42	55	42	58	38	58	40	61	40	63	49	63	47	59	47					
29....	45	33	43	27	38	29	55	32	48	34	45	28	43	33	43	29	54	28	48	34	50	28	48	28	57	30			
30....	51	25	45	34	43	20	46	33	52	28	47	32	48	32	54	33	54	32	54	28	50	42	57	39	50	39			
31....	29	20	34	19	28	18	35	24	35	26	32	20	35	23	34	24	35	20	35	26	44	21	44	21	35	24			
Mus.	43.0	29.5	42.6	25.5	39.1	24.4	44.0	25.7	46.2	30.7	42.8	26.5	43.9	27.4	44.8	25.6	49.5	29.1	46.9	29.6	47.6	28.7	51.5	30.0	49.4	30.2			